

Notice of Allowability	Application No.	Applicant(s)	
	10/665,428	SAITO ET AL.	
	Examiner	Art Unit	
	Susan S. Lee	2852	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 5/9/05.
2. ☒ The allowed claim(s) is/are 1-8.
3. ☒ The drawings filed on 9/22/03 & 5/9/05 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The amended abstract filed 5/9/05 has an error, that is "?" in the equation has to be replaced with an - - x - -; and the primary transfer means has been changed to be consistent with the primary transfer unit as previously mentioned in line 2 of the abstract filed 5/9/05. This amendment is to correct the errors.

The application has been amended as follows:

Replace the abstract that is attached on the last page of this examiner's amendment.

The following is an examiner's statement of reasons for allowance:

The primary reason for allowance of claims 1-6 is the inclusion of a primary transfer means or device; an intermediate transfer member; a second transfer means or device; and a contact member that is electrically grounded and first contacts the intermediate transfer member downstream of the primary transfer portion in the moving direction of the intermediate transfer member. The following relation:

$$-2.0 \leq \ln(V_{tr}) - L / (s \times \log \rho) \leq -1.0$$

is satisfied. L (mm) represents the distance from the primary transfer portion to a position where the contact member first contacts the intermediate transfer member. V_{tr} (V) represents the absolute value of applied voltage to the primary transfer means or

device; s (mm/sec) represents the moving speed of the intermediate transfer member, and $\rho(\Omega/\square)$ represents the surface resistivity of the intermediate transfer member.

This is found in all of claims 1-6, but not disclosed nor suggested by the prior art of record.

The primary reason for allowance of claims 7 and 8 is the inclusion of a primary transfer means; an intermediate transfer member; a second transfer means; and a contact member that is electrically grounded and first contacts the intermediate transfer member downstream of a last primary transfer portion in the moving direction of the intermediate transfer member. The following relation:

$$-2.0 \leq \ln(V_{tr}) - L / (s \times \log \rho) \leq -1.0$$

is satisfied. L (mm) represents the distance from a last primary transfer portion to a position where the contact member first contacts with the intermediate transfer member. V_{tr} (V) represents the absolute value of applied voltage to the primary transfer means at the last primary transfer portion; s (mm/sec) represents the moving speed of the intermediate transfer member, and $\rho(\Omega/\square)$ represents the surface resistivity of the intermediate transfer member.

This is found in all of claims 7 and 8, but not disclosed nor suggested by the prior art of record.

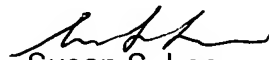
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan S. Lee whose telephone number is 571-272-2137. The examiner can normally be reached on Mon. - Fri., 10:30-8:00, Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Art Grimley can be reached on 571-272-2136 or 571-272-2800 (Ext. 52). The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Susan S. Lee
Primary Examiner
Art Unit 2852

ABSTRACT OF THE DISCLOSURE

An image formation apparatus has an image formation unit that forms toner images on an image holding member. A primary transfer unit transfers toner images on the image holding member onto an intermediate transfer member. A secondary transfer unit transfers toner images on the intermediate transfer member onto a recording medium. An electrically-grounded contact member first comes into contact with the intermediate transfer member downstream from a primary transfer portion. The relationship

$$-2.0 \leq \ln (V_{tr}) - L / (s \times \log \rho) \leq -1.0$$

is satisfied, in which L (mm) represents the distance from the primary transfer portion to a position where the intermediate transfer member first comes into contact with the contact member, V_{tr} (V) represents the absolute value of applied voltage to the primary transfer means unit, s (mm/sec) represents the moving speed of the intermediate transfer member, and $\rho(\Omega/\square)$ represents the surface resistivity of the intermediate transfer member.